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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/522,702	03/10/2000	Jiandong Huang	H16-26157	5911	
128	7590 12/18/2002				
HONEYWELL INTERNATIONAL INC.			EXAMI	EXAMINER	
101 COLUME P O BOX 2245		NGUYEN, CHAU T			
MORRISTOWN, NJ 07962-2245			. ART UNIT	PAPER NUMBER	
			2142		
			DATE MAILED: 12/18/2002	100	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Examiner			Application No.	Applicant(s)			
Examiner Chair Nguyen 2142	. Office Action Summary		09/522.702	HUANG ET AL.			
Chau Nguyen							
The MALING DATE of this communication appears on th. cover shi et with th. correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALING DATE OF THIS COMMUNICATION. Enteriors of them may be available under the preposers of 3 CFR 1.136(s). In no event, however, may a ripty be timely filled If the period for regly specified above is real than shirty 103 (abys, a ripty) with the studiusly minimum of things 103 (abys will be considered timely). If the period for regly specified above is real than shirty 103 (abys, a ripty) and will agrice 180, (MONTHS from the maling date of this communication (for regly is period above. The maximum statuth or really and will agrice 180, (MONTHS from the maling date of this communication, even it limitly field may record any sensed pattern term adjustment. Sea 7 CFR 1.74(b). Status 1) □ Responsive to communication (s) filled on 10 March 2000. 2a) □ This action is FINAL. 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) 1-27 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are objected to. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) is/are objected to by the Examiner. Application Papers 9) □ The specification is objected to by the Examiner. 10) □ The drawing(s) field on is/are: all accepted or b) □ objected to by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) □ The proposed drawing correction filed on is/are: all accepted or b) □ objected to by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Elementor of time may be assigned under the provides of 3 CFR 1.15(g), in no event, however, may a reply be limitly filled. If the period for reply specified above is less than they (30) days, a reply within the statutory minimum of thiny (30) days will be considered timely. If the period for reply specified above, the maximum statutory predict and spot, and will be considered timely. If NO period for reply specified above, the maximum statutory predict and spot, and will be considered timely. If NO period for reply within the set or extended prediction to reply with by statute, cause the septication to become ABANDONED (35 U.S. 6) 133). Shatus 1) Responsive to communication(s) filled on 10 March 2000. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-27 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 5) Claim(s) 1-27 is/are allowed. 6) Claim(s) 1-27 is/are allowed. 6) Claim(s) 1-27 is/are allowed. 7) Claim(s) is/are allowed. 8) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: allowed. Application Papers Application Papers Application will be applicated to the control of the drawing by the Examiner. 10) The proposed drawing correction filed on is/are: allowed. Application and the development is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). 11) Certified copies of the priority documents have been received. 2 Certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached defailed Office action for domestic priority under 35 U.S.C. § 119(e) (t	The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
THE MAILING DATE OF THIS COMMUNICATION. - Extractions of time may be available under the provisions of 3 C/R 1.13(g), in no event, however, may a raply be limitly flied after SX (6) MONTHS from the mailing date of this communication. - Failuse for Ry I shade in the mailing date of this communication and the status of the communication of the provision of the							
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DETAILED ACTION

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1. Claims 1-27 are presented for examination.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

3. Claims 8, 17, and 26 are rejected under 35 U.S.C. 102(e) as being anticipated by Coden, Patent No. 6,389,030.

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4. As to claims 8, 17, and 26, Coden discloses a method of managing communication with non-fault tolerant network nodes in a fault-tolerant computer network, comprising:

transmitting data from a transmitting node to a non-fault tolerant network node over a primary network (col. 12, lines 21-64); and

5. transmitting data from the transmitting node to the non-fault tolerant network node over a redundant network (col. 12, lines 21-64).

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 1-2, 4-7, 10-11, 13-16, 19-20, 22-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Law, Jr. et al. (Law), Patent No. 6,370,654, and further in view of Coden, Patent No. 6,389,030.

8. As to claims 1, 10, and 19, Law discloses a method of managing communication with non-fault tolerant network nodes in a fault-tolerant computer network, comprising:

determining network nodes present in a plurality of networks that are not faulttolerant and are connected to only a single network (Abstract);

determining the network on which each non-fault tolerant network node exists (Abstract);

However, Law does not substantially discloses storing the detected network address data of the non-fault tolerant network nodes and storing associated network data comprising the network on which the non-fault tolerant network node exists therewith and sending data intended for a non-fault tolerant network node over only the network on which the non-fault tolerant network node has been determined to exist. In the same field of endeavor, Coden discloses a ring switch may maintain an address table for all of the ports of the ring switch, and also use a number of bits associated with each address in the table to indicate the port associated with the address (col. 9, lines 43-65). In addition, Coden discloses determining where to switch a data packet by checking at the address table and transferring the data packet from the ring-in port to the port indicated in the address table (col. 12, lines 21-58). Thus, it would have been obvious to one of ordinary skills in the art at the time the invention was made to combine the teachings of Law and Coden to include storing the detected network address data of the non-fault tolerant network nodes and storing associated network data comprising the network on which the non-fault tolerant network node exists

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therewith and sending data intended for a non-fault tolerant network node over only the network on which the non-fault tolerant network node has been determined to exist.

Coden suggests that by doing so, it provides low and efficient transport mechanism.

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- 9. As to claims 2, 11, and 20, Law and Coden (Law-Coden) disclose wherein determining the network addresses of non-fault-tolerant network nodes comprises detection of network address information that the non-fault-tolerant network nodes send over a network (Coden, col. 9, lines 43-65).
- 10. As to claims 4, 13, and 22, Law-Coden disclose wherein determining the network on which each non-fault-tolerant network node exists comprises determining which network interface received the network address information sent from each non-fault-tolerant network node (Coden, col. 11, line 66 col. 12, line 9).
- 11. As to claims 5, 14, and 23, Law-Coden disclose wherein storing the data comprises populating a non-fault-tolerant network node address table (Coden, col. 9, lines 43-65).
- 12. As to claims 6, 15, and 24, Law-Coden disclose sending data intended for a non-fault-tolerant network node over both the primary and redundant network if the network on which the non-fault-tolerant network node exists has not been determined (Coden, col. 12, lines 59-63)

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13. As to claims 7, 16, and 25, Law-Coden disclose wherein determination of whether the network on which the non-fault-tolerant network node exists has been determined comprises:

searching an address table for the stored data (Coden, col. 12, lines 21-64);

determining the network on which the non-fault-tolerant network node exists has been determined if the address table contains an entry for the non-fault-tolerant network node (Coden, col. 12, lines 21-64); and

determining the network on which the non-fault-tolerant network node exists has not been determined if the address table does not contain an entry for the non-fault-tolerant network node (Coden, col. 12, lines 21-64).

- 14. Claims 3, 12, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Law, Jr. et al. (Law), Patent No. 6,370,654, Coden, Patent No. 6,389,030, and further in view of Hart, Patent No. 5,862,344.
- 15. As to claims 3, 12, and 21, Law-Coden disclose the limitations as discussed in claims 1, 3-8 above. However, Law-Coden don't substantially disclose wherein the network address information that is sent comprises Internet Protocol Address Resolution Protocol packets (IP ARP packets). In the same field of endeavor, Hart discloses Address Resolution Protocol stream is a special stream to the TCP/IP stack that is to used to pass Address Resolution Protocol frames to the IP layer in the TCP/IP

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stack (col. 10, lines 38-54). Thus, it would have been obvious to one of ordinary skills in

the art at the time the invention was made to combine the teachings of Law-Coden and

Hart to include the network address information that is sent comprises Internet Protocol

Address Resolution Protocol packets. By doing so, it would determine the availability of

certain protocol addresses.

16. As to claims 9, 18, and 27, Law-Coden and Hart disclose receiving and

retransmitting the data via an intermediate node when the transmitting node is unable to

communicate with both the primary and redundant networks, such that if the

intermediate node receives the data via the redundant network it retransmits the data on

the primary network and if the intermediate node receives the data via the primary

network it retransmits the data on the redundant network (Hart, col. 1, lines 26-38).

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Conclusion

1. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

2. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Chau Nguyen whose telephone number is (703) 305-

4639. The Examiner can normally be reached on Monday-Friday from 7:30am to

4:30pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's

supervisor, Mark Powell, can be reached at (703) 305-9703.

The fax phone numbers for the organization where this application is assigned

are as follows:

(703) 746-7238 (After Final Communications only)

(703) 746-7239 (Official Communications)

(703) 746-7240(for Official Status Inquiries, Draft Communications only)

Inquiries of a general nature relating to the general status of this application or

proceeding should be directed to the 2100 Group receptionist whose telephone number

is (703) 305-3900.

Chau Nguyen
Patent Examiner
Art Unit 2142

Marc Thompson
Patent Examiner
Art Unit 2142

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